

For Research Use Only

PWWP2B Polyclonal antibody

Catalog Number: 32112-1-AP



Basic Information

Catalog Number:

32112-1-AP

Concentration:

600 ug/ml

Source:

Rabbit

Isotype:

IgG

Immunogen Catalog Number:

AG36839

GenBank Accession Number:

BC068574

GeneID (NCBI):

170394

UNIPROT ID:

Q6NUJ5

Full Name:

PWWP domain containing 2B

Observed MW:

90 kDa

Purification Method:

Antigen affinity Purification

Recommended Dilutions:

WB 1:2000-1:12000

Applications

Tested Applications:

WB, ELISA

Species Specificity:

human

Positive Controls:

WB : A549 cells, BxPC-3 cells, HaCaT cells, HeLa cells, LNCaP cells

Background Information

PWWP2B (PWWP structural domain protein 2B) is a PWWP structural domain-containing protein involved in a variety of cellular functions and biological processes. PWWP2B is highly expressed in brown and beige adipose tissue and its expression is induced by cold stimulation. It has been shown that PWWP2B negatively regulates adipose tissue thermogenesis by recruiting and stabilizing the histone deacetylase HDAC1/2, which binds to the promoter regions of thermogenic genes and reduces histone acetylation levels. In adipocytes, PWWP2B acts as part of the nucleosome remodeling and deacetylation complex (NuRD) to inhibit the expression of thermogenic genes and avoid overactivation of thermogenic functions. In addition, PWWP2B plays an important role in DNA damage repair, as its PWWP structural domain moves to DNA damage sites, interacts with UHRF1 and recruits MRE11 to promote DNA end resection and homologous recombination repair. In pathology, downregulation of PWWP2B is associated with recurrent gastric cancer and promotes cell proliferation and migration.

Storage

Storage:

Store at -20°C. Stable for one year after shipment.

Storage Buffer:

PBS with 0.02% sodium azide and 50% glycerol, pH7.3

Aliquoting is unnecessary for -20°C storage

For technical support and original validation data for this product please contact:

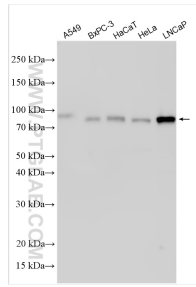
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Selected Validation Data



Various lysates were subjected to SDS PAGE followed by western blot with 32112-1-AP (PWWP2B antibody) at dilution of 1:6000 incubated at room temperature for 1.5 hours.